

 (Currently amended) A device for Homeland intelligence systems technology to enable detection of and protection against weapons of mass destruction, comprising:

at least a sensor means embedded in at least a silicon substrate and etched/fused in at least a micro-fibered material worn on a person, in communication with an effective detection platform;

said detection platform comprising an interactive monitoring means operatively configured to relay to at least a communication means, wherein said detection platform further enables pre-use and/or post-use detection of deadly weapons in a monitored environment or battleground assignment;

means configured to empower said detection platform;

said communication means comprising means for analyzing detection signals; said communication means communicatively configured with said detection platform for enabling detection and interactive communication; and said communication means further enabling a wireless communication network with a transmitter means and a receiver means, operatively configured to enable communicating said detection of deadly weapons to a control center, including at least a homeland security agency.

- 2. (Currently amended) A device for Homeland intelligence systems technology of claim 1, wherein said sensor means comprises a plurality of sensors, each said plurality of sensors configured to enable at least a specific detection of deadly weapons, and wherein the communication means further configured to produce a real-time alert when a concealed object and or weapon of mass destruction is detected.
- 3. (Currently amended) A device for Homeland intelligence systems technology of claim 2, wherein said communications means further comprising means for transmitting and receiving analog and/or digital signals of varying frequencies.

- 4. (Currently amended) A device for Homeland intelligence systems technology of claim 3, wherein said sensor means comprises nano-sensors, bringing signals that contain at least chemical targets into contact with said detection platform, thereby allowing at least a chemical target to be bound to a discrete region of said sensor means.
- 5. (Currently amended) A device for Homeland intelligence systems technology of claim 4, wherein said nano-sensors further include at least MEMS and at least an RFID code-able chip, said detection platform further comprising providing a substrate across which is distributed an array of discrete regions, said discrete regions having membranes that pass through the sensor means.
- 6. (Currently amended) A device for Homeland intelligence systems technology of claim 5, wherein said sensor means provide an optical radiation corresponding to a first wavelength emitted from at least one of the discrete region of said nano-sensor.
- 7. (Currently amended) A device for Homeland intelligence systems technology of claim 6, wherein said discrete regions of said nano-sensors have membranes passing through the sensor means responsive for analyzing data transmission.
- 8. (Currently amended) A device for Homeland intelligence systems technology of claim 7, wherein said discrete regions of said nano-sensors further comprise a first cleansing of the affinity column for extracting at least an analyte of dissolved and/or suspended material other than the bound analyte.
- 9. (Currently amended) A device for Homeland intelligence systems technology of claim 8, wherein said discrete regions of said nano-sensors further comprise a second releasing of the analyte from the affinity column for providing the analyte with a measurable fluorescence when the analyte does not have a measurable natural fluorescence said discrete region further comprises a reflecting layer to enhance sensitivity of detection.

- 10. (Currently amended) A device for Homeland intelligence systems technology of claim 9, wherein said sensor means enables detection of a human heartbeat and respiratory system within a monitoring environment and or battlefield assignment.
- 11. (Currently amended) A device for Homeland intelligence systems technology of claim 10, wherein said sensor means determines whether a person is carrying a concealed object by conducting a test in which a first characteristic of a first dielectric constant associated with the person is determined, and a second characteristic of a second dielectric constant associated with the weapon of mass destruction is determined.
- 12. (Currently amended) A device for Homeland intelligence systems technology of claim 11, wherein said sensor means further includes-method for transforming the effects of electrochemical interaction with an analyte electrode into useful signal communication to said control center.
- 13. (Currently amended) A device for Homeland intelligence systems technology of claim 12, wherein said analyte of said sensor means comprises at least a metal oxide and /or semiconductor gas sensor.
- 14. (Currently amended) A device for Homeland intelligence systems technology of claim 13, wherein said sensor means further includes at least a transmitter for transmitting detection signals to enable interactive wireless communication with said control center, said re-enforced micro-fibered material having excellent electrical properties for enabling thermal control and for re-enforcing sensitivity of detection.
- 15. (Currently amended) A device for Homeland intelligence systems technology of claim 14, wherein said detection platform is operatively configured to detect a concealed weapon, including weapons in a gaseous phase, a liquid phase, a solid phase, or an applied explosive phase, and is further configured to produce real-time alert when a weapon of mass destruction is detected.

- 16. (Currently amended) A device for Homeland intelligence systems technology of claim 15, wherein said detection platform comprises a temperature detector, a contextual object detector, and at least a speech detector, further comprising providing a substrate across which is distributed an array of discrete regions, said discrete regions having membranes that pass through the sensor means, and responsible for data transmission.
- 17. (Currently amended) A device for Homeland intelligence systems technology of claim 16, wherein said detection platform is further configured to detect selected sounds, un-parallel wave motion, biological agents, chemical agents, nuclear agents, radiological agents, and at least a Q factor responsive for environmental pressure change.
- 18. (Currently Amended) A device for Homeland intelligence systems technology of claim 17, wherein said detection platform includes a mobile detection means configured to detect objects concealed in a person, a vehicle, or a vicinity.
- 19. (Currently Amended) A device for Homeland intelligence systems technology of claim 18, wherein said mobile detection means comprises a bistatic radar.
- 20. (Currently amended) A device for Homeland intelligence systems technology of claim 19, further comprising a silicon substrate and a micro- fiber material on said sensor means for re-enforcing the effectiveness of said detection platform.
- 21. (Currently amended) A device for Homeland intelligence systems technology of claim 20, wherein said silicon substrate and/or said micro-fiber material have excellent electrical properties.
- 22. (currently amended) A device for Homeland intelligence systems technology of claim 21, wherein said micro-fiber material comprises transistorized switches etched or fused within it to enable thermal adjustment to environmental change.
- 23. (Currently amended) A device for Homeland intelligence systems technology of

- claim 22, wherein said communication means further includes a receiving means, including at least an RFID chip operatively configured with an fm receiver.
- 24. (Currently amended) A device for Homeland intelligence systems technology of claim 24, wherein said communication means is configured with a memory and data storage means and communicatively connected to a control center.
- 25. (Currently amended) A device for Homeland intelligence systems technology of claim 24, wherein said communication means further includes means for transmitting and receiving analog and digital signals of varying frequencies.
- 26. (Currently amended) A device for Homeland intelligence systems technology of claim 25, wherein said communication means is configured to convert signals from said sensor means and said detection platform into useful analytical signals and send them to a receiving means at said control center.
- 27. (Currently amended) A device for Homeland intelligence systems technology of claim 26, wherein said communication means further comprises means for audiovisual communication and speaker means for outputting human voice auditory message to personnel conducting security monitoring and or battlefield engagement.
- 28. (Currently amended) A device for Homeland intelligence systems technology of claim 27, wherein said communication means further comprises a first operational amplifier circuit configured with at least a characteristic for converting the electrical current from the detection platform into a pulse.
- 29. (Currently amended) A device for Home-land intelligence systems technology of claim 28, wherein said transmitter means is responsive for transmitting signals from said communication means to said receiving means at said control center.
- 30. (Currently amended) A device for Homeland intelligence systems technology of claim 29, wherein said receiving means is coupled to an antenna and sensor means

further comprises pattern recognition technique.

- 31. (Currently amended) A device for Homeland intelligence systems technology of claim 30, wherein said antenna means is operatively configured with said detection platform and receiving means for receiving and outputting detection signals, said pattern recognition technique further includes at least an optical character recognition technique.
- 32. (Currently amended) A device for Homeland intelligence systems technology of claim 31, wherein said antenna of said receiving means comprises an end-fire waveguide antenna and the detection signal further comprises a frequency stepped signal, further includes means for protecting at least a human body from body bacterial.
- 33. (Currently amended) A device for Homeland intelligence systems technology of claim 32, wherein said receiving means further comprises means for transforming changes in optical phenomena due to at least an interaction of an analyte with a receptor part indicative of a sensed agent and/or explosives, said means outputting micro-impulse waves, further comprises at least a radio frequency identification "RFID" further responsive for measuring a change in electrical properties caused by the interaction.
- 34 (Currently amended) A device for Homeland intelligence systems technology of claim 33, wherein said sensor means comprises at least a proximity sensor configured with said detection platform, said receiving means further comprising means for transforming at least a mass change at a modified surface into a change of property of a support material.
- 35 (Currently amended) A device for Homeland intelligence systems technology of claim 34, wherein said detection platform further comprises means for detecting data characteristics traveling through waves and said receiving means receiving said data responsive for sharing said data characteristics with at least a network structure.
- 36 (Currently amended) A device for Homeland intelligence systems technology of

- claim 35, wherein said data characteristics comprises audio and/or data from anticipatory sensing of at least a weapon of mass destruction, and wherein at least one of the antenna means comprises at least an RFID chip and/or a spiral antenna.
- 37. (Currently amended) A device for Homeland intelligence systems technology of claim 36, wherein said data characteristics comprises data commonly shared with at least a network computer during an emergency, and wherein said network computer comprises at least a handheld device and said discrete regions further includes at least a reflecting layer to enhance sensitivity of detection.
- 38. (Currently amended) A device for Homeland intelligence systems technology of claim 37, wherein said data characteristics further comprises at least foreign objects in at least wind waves, and wherein said wind waves include at least said micro-impulse waves.
- 39. (Currently amended) A device for Homeland intelligence systems technology of claim 38, wherein said data characteristics comprises contextual characteristics data of said weapons of mass destruction and said micro-fibered material comprises outfit configured with said sensor means for receiving signals.
- 40. (NEW) A device for Homeland intelligence systems technology of claim 39, wherein said outfit comprises at least a uniform commonly worn by armed personnel, including CIA, FBI, SECRET SERVICE, POLICE, CUSTOMS, and GUARDS.
- 41. (NEW) A device for Homeland intelligence systems technology of claim 40, further comprises at least outfit commonly worn by unarmed personnel, including Doctors, nurses, and hostesses, pilots of transit vehicles, pilots of mail delivery vehicles, laboratory personnel, and security guards.
- 42. (NEW) A mobile homeland security system for monitoring terrorist activities and enemy line in a battlefield, comprising:

a portable wearable outfit enabling detection of and protection against weapons of mass destruction, said portable wearable outfit comprising:

a processing means for receiving and processing analog and digital signals;

a pattern of recognition technique in communication with said processing means for determining pattern common to deployment of weapons of mass destruction;

a system of sensors in communication with processing means and pattern of recognition technique comprising means for detecting deployment of biological, chemical, explosive, or radioactive agents;

said system of sensors embedded in a silicon substrate and etched in a micro-fibered material located on said portable wearable outfit; and

a control center in communication with said processing means broadcasting emergency conditions to personnel monitoring assigned environment.

43. (NEW) A wearable protection and monitoring outfit and system for protecting a site and detecting weapons of mass destruction, comprising:

a sensor means embedded in a silicon substrate and etched in a micro-fiber material on the wearable protection and monitoring outfit for detecting deployment of biological, chemical, explosive or radioactive agents;

a detection means for analyzing signal communication from said sensor means, comprising:

an antenna coupled to said sensor means;

a transmitter in communication with said detection means enabling analyzed data transmission to a control means;

a conversion means within said control means for receiving said analyzed data transmission and analyzing said data into a wind pattern representation of a weapon of mass destruction frequency.

44. (NEW) A wearable protection and monitoring outfit and system for protecting a site and detecting weapons of mass destruction, comprises;

- a sensing means;
- at least a cell means;
- a detection means;
- a communication means, in communication with said detection means and said at least a cell means, comprising at least a first ship means;
- a control means in communication with said communication means; said communication means in communication with said detection means; and said control means, comprising a ship disposed with at least a wind tunnel configured with at least a propeller operatively disposed with a turbine operatively connected to at least a second ship means, a cell means, wherein said at least first ship means and said at least second sip means communicatively enable energy upgrade for said outfit and said system through wind energy source means.
- 45. (NEW) A wearable protection and monitoring outfit of claim 44, wherein said at least a first ship means or wherein said at least a second ship means comprises at least a battery cell.